

IN THE CLAIMS

1 (Previously Presented). A method comprising:

demultiplexing at least one wavelength from a multiplexed optical signal; and  
detecting said demultiplexed wavelength using an L-shaped detector.

2 (Original). The method of claim 1 including providing an angled reflector in the path of said multiplexed signal to reflect light of a first wavelength to a first detector and to pass light of a second wavelength.

3 (Currently Amended). The method of claim 1 including receiving said multiplexed optical signal over a waveguide and impressing ~~a~~ third wavelength on said waveguide.

4 (Currently Amended). The method of claim 1 wherein demultiplexing includes providing an integrated reflector with a detector ~~of a first wavelength of said at least two wavelengths.~~

Claim 5 (Canceled).

6 (Previously Presented). The method of claim 1 including forming said detector on an electrooptical bench.

7 (Original). The method of claim 6 including providing a trench in said bench to receive a portion of said L-shaped detector.

8 (Currently Amended). The method of claim 6 including forming ~~a~~ reflector on the surface of said detector.

9 (Original). The method of claim 8 including forming said reflector by coating alternate layers of material on said detector.

10 (Original). The method of claim 8 including using said trench to position said detector on said bench.

11 (Original). The method of claim 7 including forming electrical connections from said bench to one portion of said L-shaped detector.

12 (Previously Presented). An optical system comprising:

a waveguide; and

a demultiplexer coupled to said waveguide to demultiplex at least one wavelength from a multiplexed optical signal on said waveguide, said demultiplexer including a photodetector to detect said wavelength wherein said demultiplexer includes an integrated reflector and an L-shaped photodetector, said photodetector to detect a wavelength passed by said reflector.

13 (Original). The system of claim 12 wherein said demultiplexer includes an angled reflector to reflect light of a first wavelength to a first detector and to pass light of a second wavelength.

14 (Currently Amended). The system of claim 12 ~~wherein said including a multiplexer that, coupled to said waveguide, includes a laser coupled to a curved waveguide, said curved waveguide having a portion arranged proximately to said waveguide.~~

15 (Original). The system of claim 14 wherein said laser is coupled at one end of said curved waveguide and a power monitor is coupled to the other end of said curved waveguide.

Claims 16 and 17 (Canceled).

18 (Currently Amended). The system of claim 12 wherein said demultiplexer, ~~said multiplexer, and said waveguide are formed on a planar substrate including a trench to receive one arm of said L-shaped photodetector.~~

19 (Original). The system of claim 18 wherein said reflector is formed on the surface of said photodetector.

20 (Previously Presented). The system of claim 19 wherein said reflector includes a plurality of layers of material coated on said photodetector.

Claims 21-25 (Canceled).